



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/975,797	10/11/2001	Michael L. Walker	194-15337CIP	9540
24923	7590	07/01/2004	EXAMINER	
PAUL S MADAN MADAN, MOSSMAN & SRIRAM, PC 2603 AUGUSTA, SUITE 700 HOUSTON, TX 77057-1130			TUCKER, PHILIP C	
			ART UNIT	PAPER NUMBER
			1712	

DATE MAILED: 07/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	Application No.	Applicant(s)	<i>C</i>
	09/975,797	WALKER, MICHAEL L.	
	Examiner Philip C Tucker	Art Unit 1712	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM  
THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) Responsive to communication(s) filed on 06 April 2004.
- 2a) This action is **FINAL**.                            2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) Claim(s) 1,3-5,10-13,15-17 and 22-24 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) Claim(s) \_\_\_\_\_ is/are allowed.
- 6) Claim(s) 1,3-5,10-13,15-17,22 and 24 is/are rejected.
- 7) Claim(s) 23 is/are objected to.
- 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) All    b) Some \* c) None of:
  1. Certified copies of the priority documents have been received.
  2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: \_\_\_\_\_

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1, 3-5, 12, 13 and 15-17 are rejected under 35 U.S.C. 102(b) as being anticipated by Itzhak (4943480).

Itzhak teaches a brine which comprises zinc and calcium at levels greater than 11 pounds per gallon, which comprise urea at levels of 0.05-0.5 wt %, which is inclusive of the concentration herein (see claims 1, 10 and 11 and column 3, lines 15-19). Such urea would inherently absorb acid as in the present invention.

3. Claims 1, 3, 10, 12, 13, 15 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by Doty (4728446).

Doty teaches a a corrosion inhibited brine comprising an alkali metal or alkaline earth metal salt, and a corrosion inhibitor of ammonium thiocyanate (salt of ammonia), at levels of 0.05 to 1.5% which overlap the concentrations of the present invention (see Table IV and claims 1-3. Such thiocyanate would inherently absorb acid as in the present invention.

4. Claims 1, 3-5, 10, 12, 13, 15-17 and 22 are rejected under 35 U.S.C. 102(b) as being anticipated by WO 86/04634.

WO '634 teaches a corrosion inhibited brine which comprises zinc and calcium ions and corrosion inhibiting ammonium salts within the concentration of the present invention (see for example Tables I and II and related text on pages 14-15). Such ammonium salts would inherently absorb acid as in the present invention.

5. Claims 1, 3-5, 10-13, 15-17, 22 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Shin (4784778).

Shin teaches a corrosion inhibited brine comprising zinc and calcium ions and an ammonium thioglycolate salt within the concentration range of the present invention, which can further comprise a hydroxycarboxylic acid (see claim 9 and example VI). Such ammonium salt would inherently absorb acid as in the present invention.

6. Claims 1, 3-5, 10-13, 15-17, 22 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Dadgar (4784779).

Dadgar teaches a corrosion inhibited brine comprising zinc, sodium and calcium ions and an ammonium thioglycolate or thiocyanate salt within the concentration range of the present invention, which can further comprise a hydroxycarboxylic acid (see examples III, IV and VII and claim 1). Such ammonium salt would inherently absorb acid as in the present invention.

7. Claim 23 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

8. Applicants amendment has overcome the rejection over the JP reference. New rejections are presented in this office action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip C Tucker whose telephone number is 571-272-1095. The examiner can normally be reached on Monday - Friday, Flexible schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Philip C Tucker

Application/Control Number: 09/975,797  
Art Unit: 1712

Page 5



Primary Examiner  
Art Unit 1712

PCT-3052